APPENDIX C

(CLEAN VERSION OF CLAIMS)

(Serial No. 10/046,671)

CLAIMS

What is claimed is:

- 1. An infectious recombinant Infectious Bursal Disease Virus (rIBDV) essentially incapable of growing in a non-bursa cell or cell derived from a non-bursa cell.
- 2. An infectious rIBDV having retained at least part of the very virulent characteristics of a very virulent Infectious Bursal Disease Virus (vvIBDV).
- 3. The rIBDV of claim 1 wherein the rIBDV has retained at least part of the very virulent characteristics of a very virulent Infectious Bursal Disease Virus (vvIBDV).
- 4. (Amended) The rIBDV of claim 2 wherein said rIBDV is essentially incapable of growing in a CEF cell, a VERO cell or a QM5 cell.
- 5. (Amended) The rIBDV of claim 3 wherein the rIBDV's VP2 protein sequence has no asparagine at amino acid position 279.
- 6. The rIBDV of claim 5 wherein the amino acid sequence of protein VP2 has aspartic acid at amino acid position 279.
- 7. (Amended) The rIBDV of claim 3 wherein the protein VP2 has no threonine at amino acid position 284.
- 8. The rIBDV of claim 7 wherein the protein VP2 has alanine at amino acid position 284.
- 9. The rIBDV of claim 8 wherein the amino acid sequence of protein VP2 comprises a stretch of amino acids from about position 279 to 289 as found in a vvIBDV isolate such as shown in Table 8.

10. (Amended) A method for obtaining an infectious recombinant Infectious Bursal Disease Virus (rIBDV) incapable of growing on a non-bursa cell-derived cell, said method comprising:

transfecting at least one first cell with a nucleic acid comprising an IBDV genome at least partly derived from IBDV;

incubating said at least one first cell in a culture medium;

recovering rIBDV from said at least one transfected first cell or said culture medium; and

propagating said recovered rIBDV in at least one second cell which is permissive for said rIBDV.

11. (Amended) A method for obtaining an infectious recombinant Infectious Bursal Disease Virus (rIBDV) having retained at least part of the very virulent characteristics of a very virulent Infectious Bursal Disease Virus (vvIBDV), said method comprising:

transfecting at least one first cell with a nucleic acid comprising an IBDV genome at least partly derived from a vvIBDV;

incubating said at least one first cell in a culture medium;

recovering rIBDV from said at least one transfected first cell or said culture medium; and

propagating said recovered rIBDV in at least one second cell permissive for said vvIBDV.

- 12. (Twice amended) The method according to claim 10 wherein said at least one first cell is a non-bursa cell-derived cell.
- 13. (Twice amended) The method according to claim 12 wherein said at least one second cell is a bursa cell-derived cell.
- 14. (Twice amended) The method according to claim 13 wherein said at least one first cell, such as a CEF cell, a VERO cell or a QM5 cell, is non-permissive for vvIBDV.

- 15. (Twice amended) The method according to claim 14 wherein said at least one first cell has additionally been provided with a helper virus or a viral protein derived from a helper virus.
- 16. The method according to claim 15 wherein said viral protein comprises T7-polymerase.
- 17. (Twice amended) The method according to claim 16 wherein said rIBDV has at least retained the incapacity to substantially be propagated on a vvIBDV non-permissive cell selected from the group consisting of a VERO, a QM5 and a CEF cell.
- 18. (Twice amended) The method according to claim 17 wherein said at least one permissive second cell is a primary bursa cell.
- 19. (Amended) The method according to claim 18 wherein said rIBDV comprises at least a nucleic acid derived from at least a part of genome segment A of vvIBDV.
- 20. The method according to claim 19 wherein said nucleic acid encodes at least a functional part of protein VP2.
- 21. (Amended) The method according to claim 20 wherein said rIBDV comprises at least a nucleic acid derived from a serotype II IBDV.
- 22. (Amended) The method according to claim 21 wherein said rIBDV is lacking at least one immunodominant epitope specific for a serotype I IBDV.
- 23. (Amended) An infectious mosaic IBDV (mIBDV) comprising an rIBDV wherein at least one genome segment comprises nucleic acid derived from at least two different Birna virus isolates.
 - 24. The mIBDV of claim 23 wherein at least one of said isolates is a vvIBDV.

- 25. (Amended) The mIBDV of claim 24 wherein said mIBDV is unable to be propagated on a vvIBDV non-permissive cell selected from the group consisting of a VERO cell, a QM5 cell, and a CEP cell.
- 26. (Amended) The mIBDV of claim 25 wherein said mIBDV is able to be propagated on a vvIBDV permissive cell.
- 27. (Amended) The mIBDV of claim 26 wherein at least one of said isolates is a serotype II IBDV.
- 28. (Amended) The mIBDV of claim 27 lacking at least one immunodominant epitope specific for a serotype I IBDV.
 - 29. (Amended) A vaccine comprising the rIBDV of claim 2.
- 30. The rIBDV of claim 8 wherein the amino acid sequence of protein VP2 at least comprises a stretch of amino acids from about position 229 to 314.